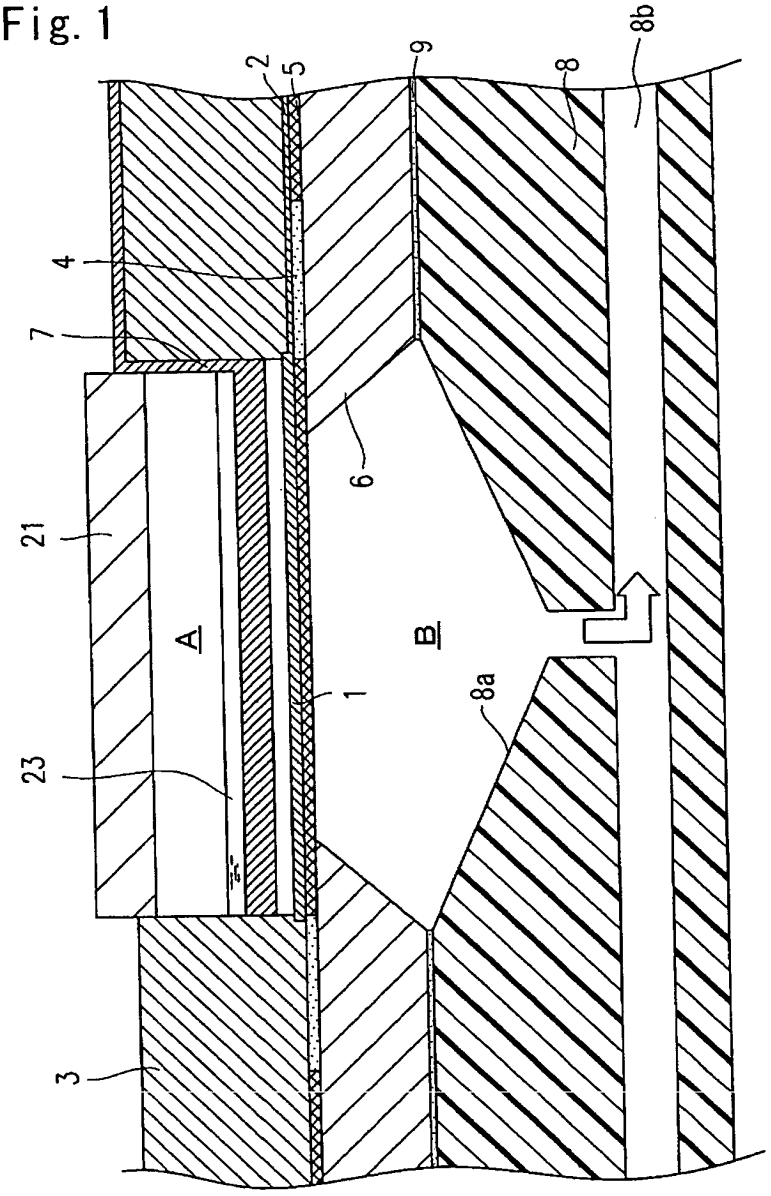
Fig. 1



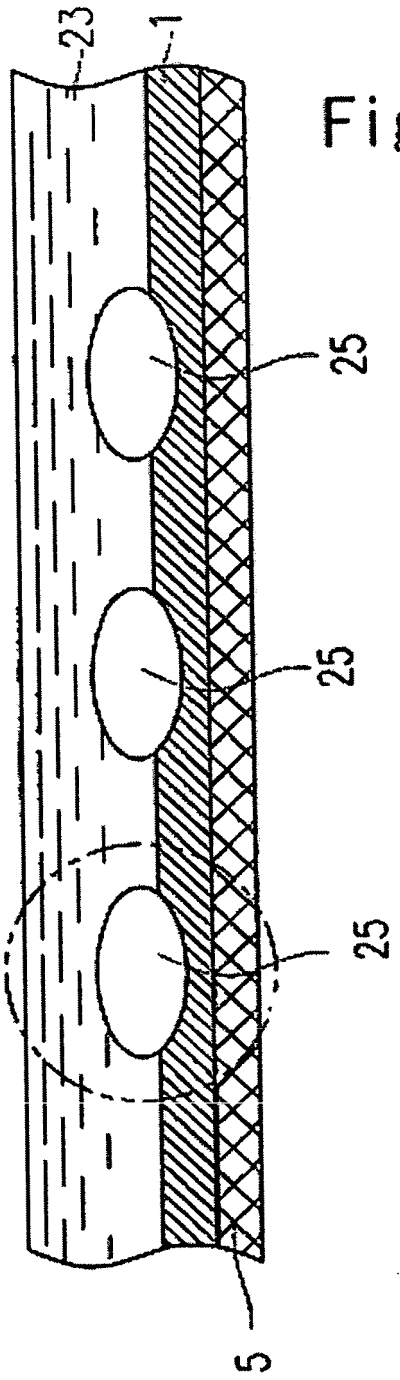


Fig. 2

Fig.3

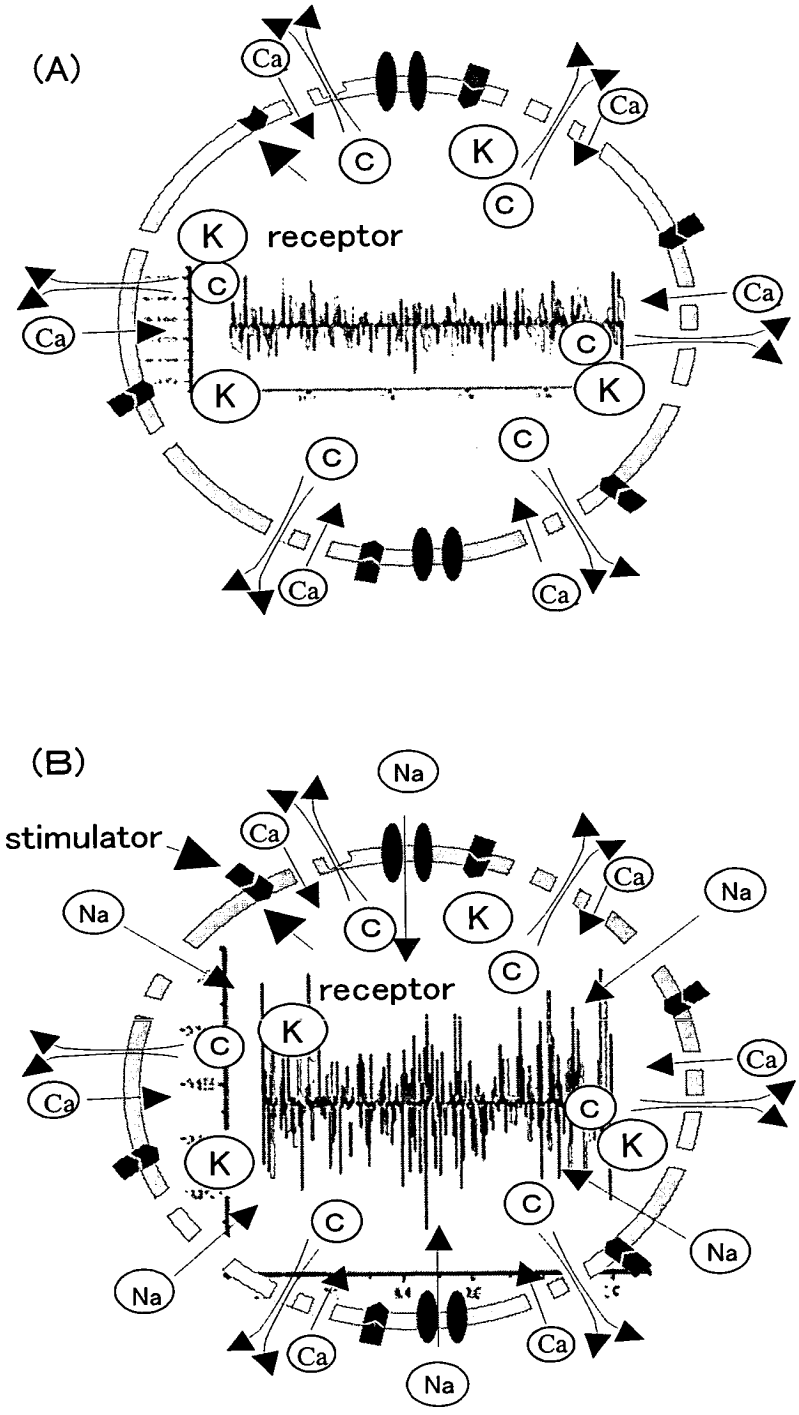


Fig. 4

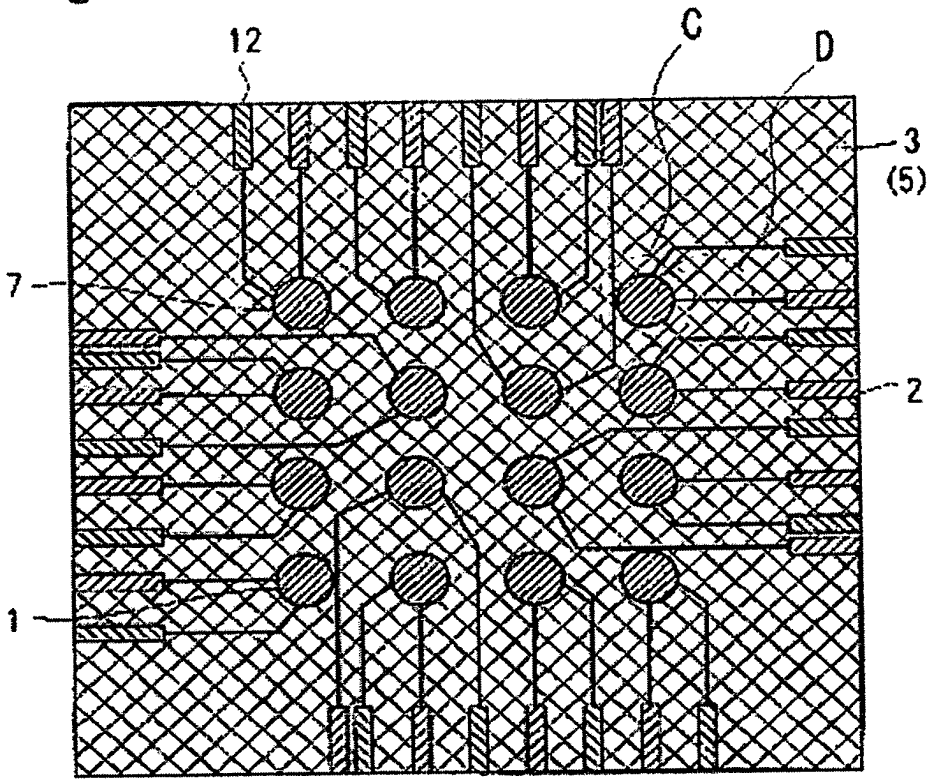


Fig. 5

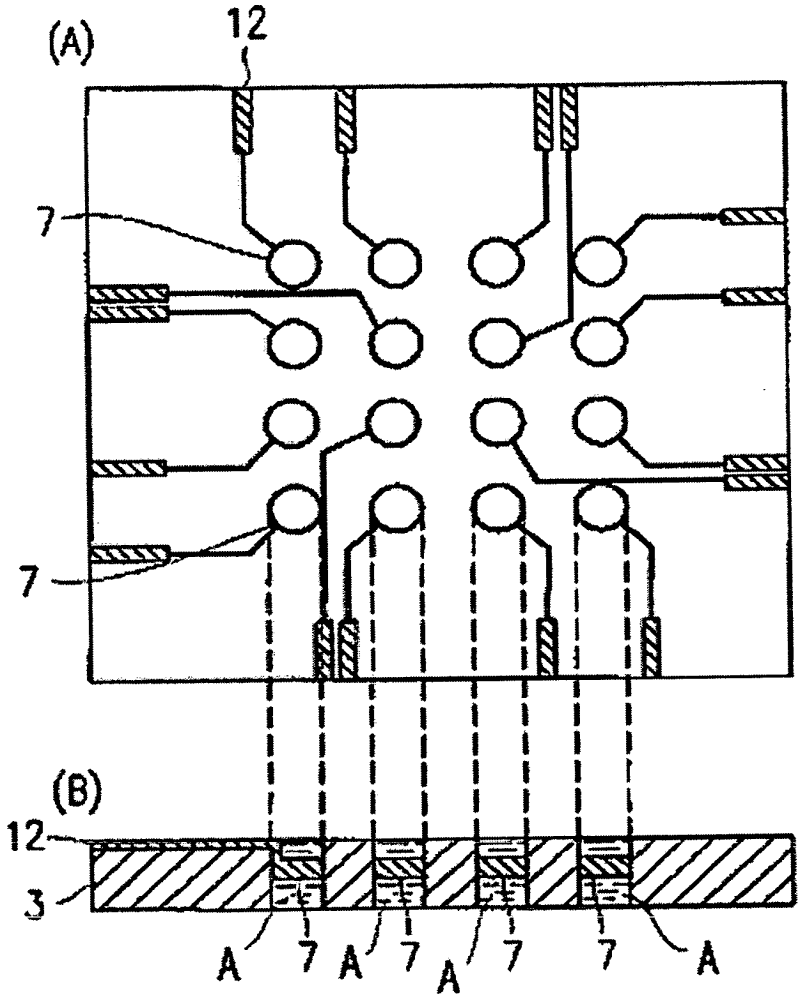
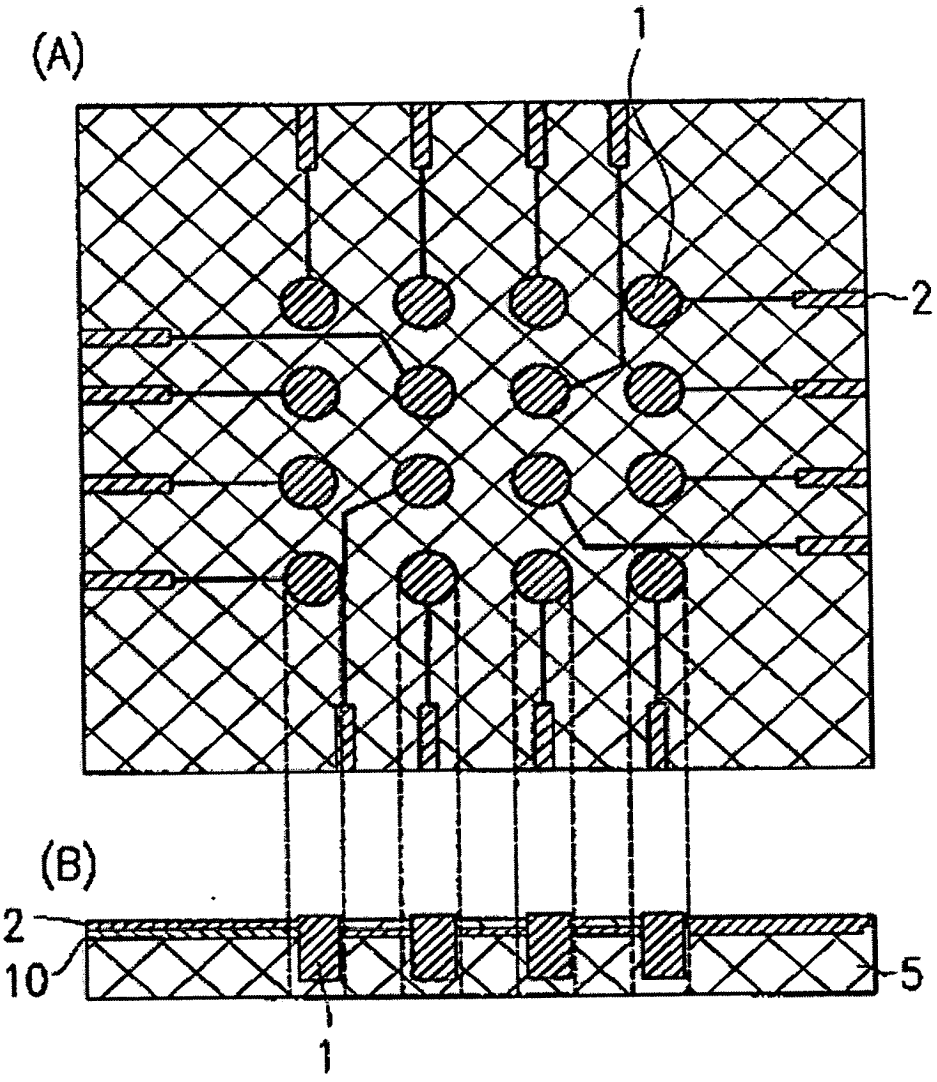


Fig. 6



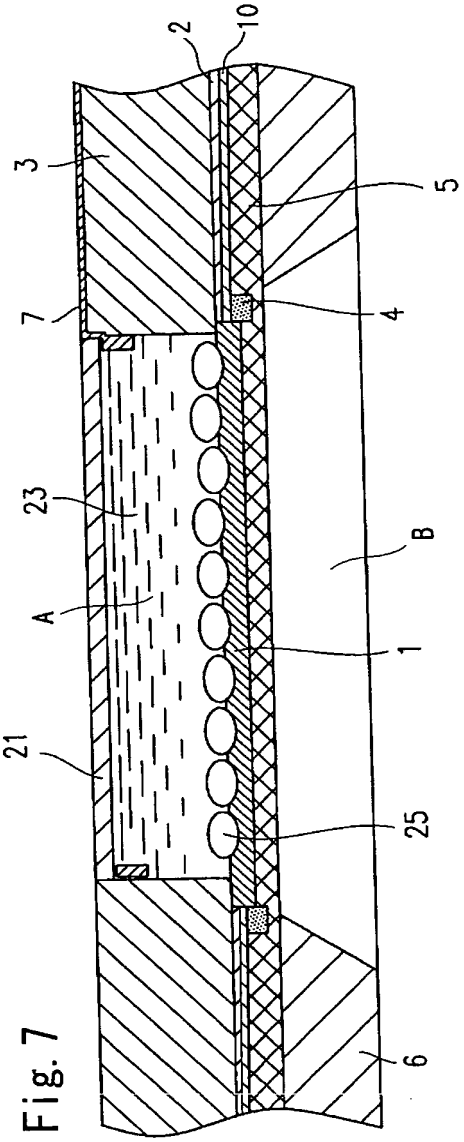


Fig. 7

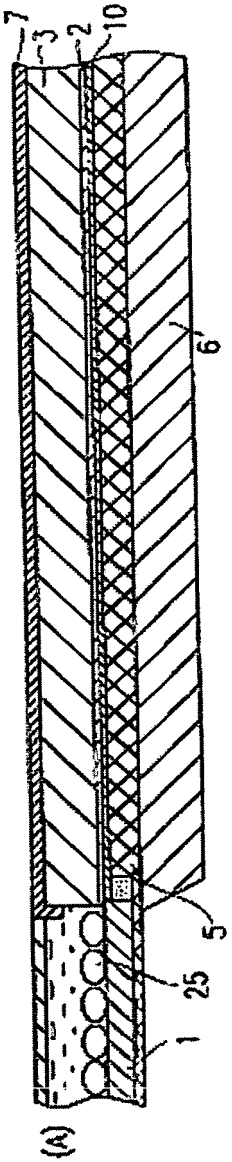
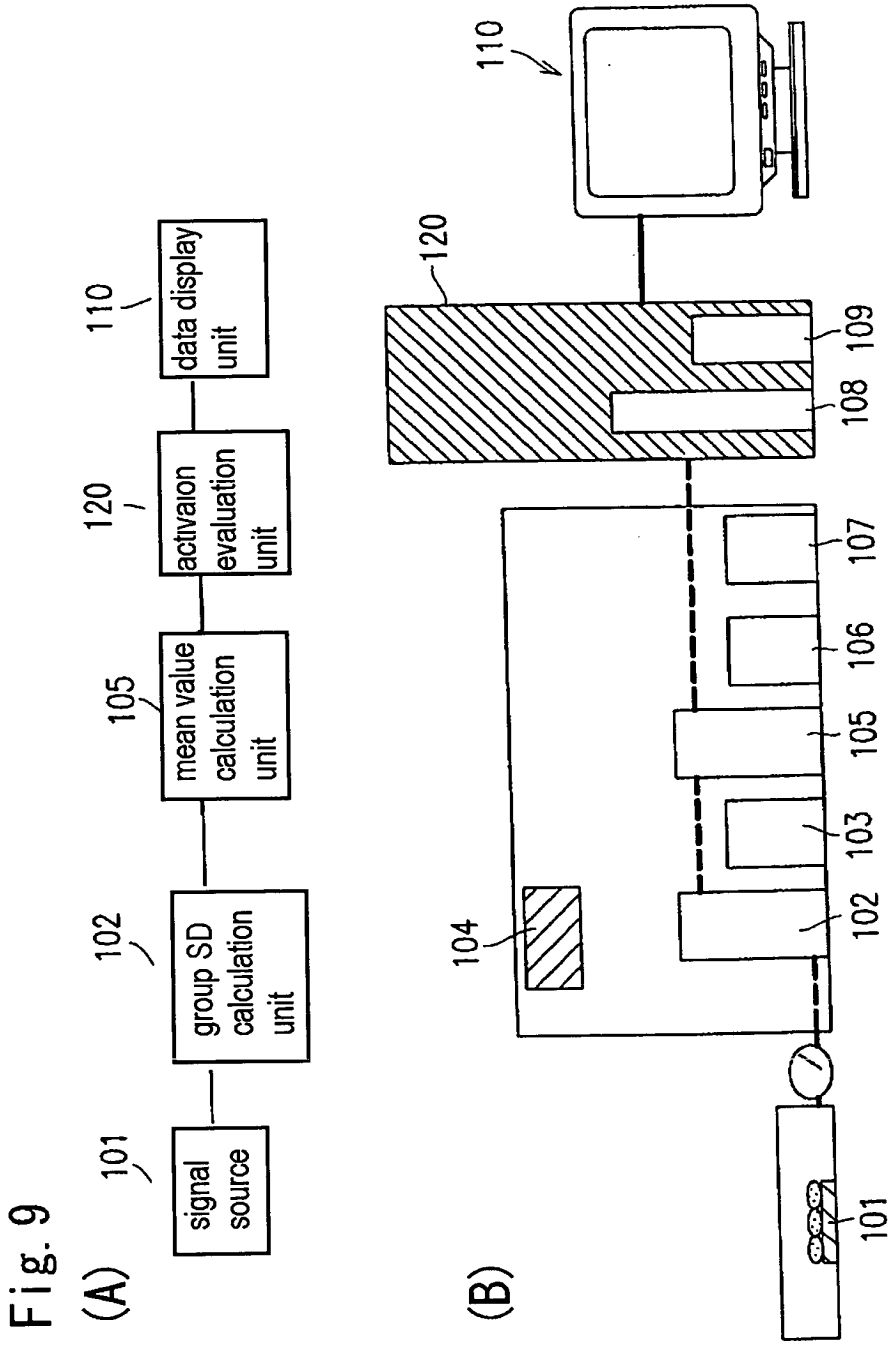


Fig. 8

Fig. 9


(A)
101
signal source
102
group SD calculation unit
105
mean value calculation unit
120
activaion evaluation unit
110
data display unit
(B)
110
120
109
108
107
106
105
103
102
104
101

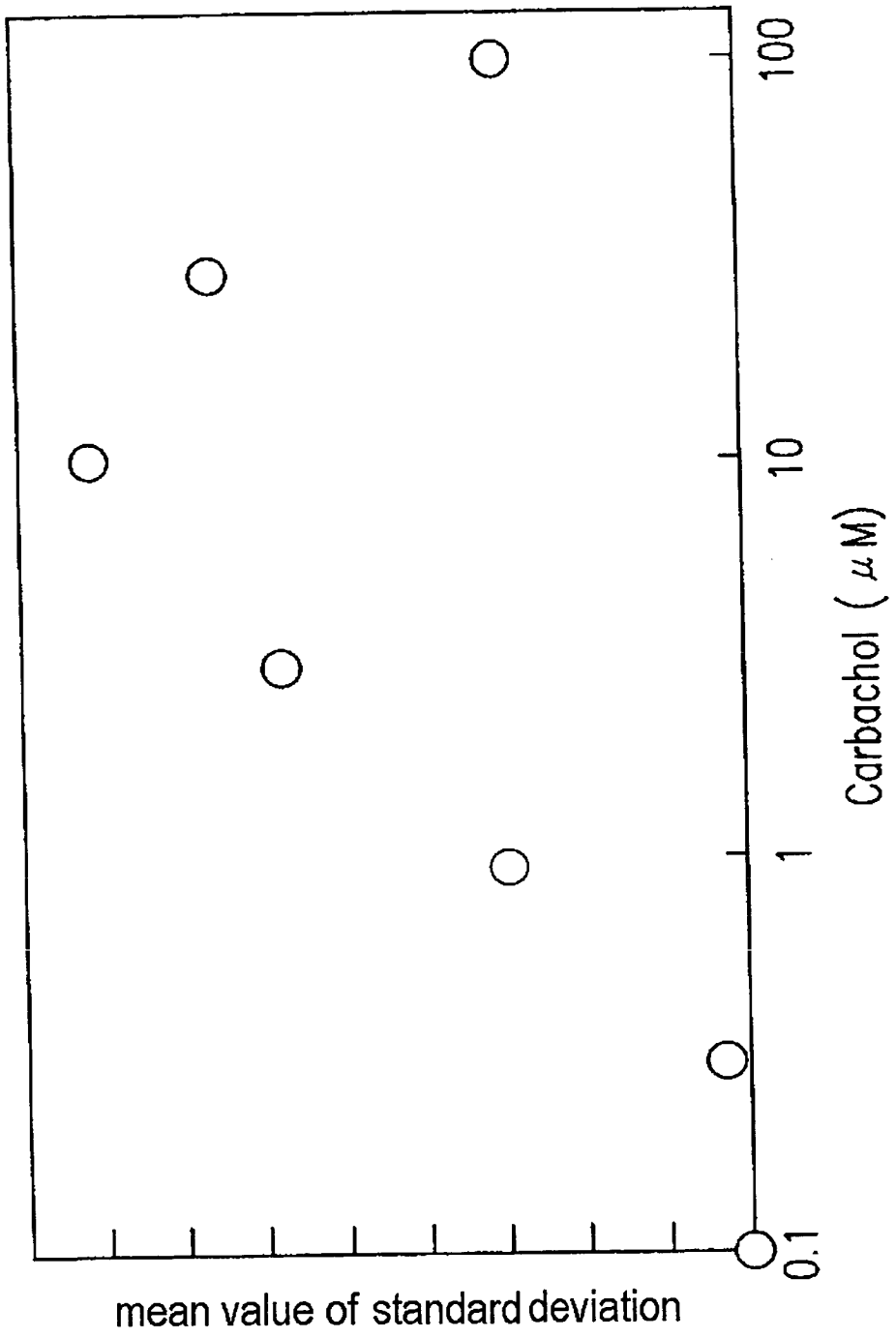


Fig. 10

Fig. 11

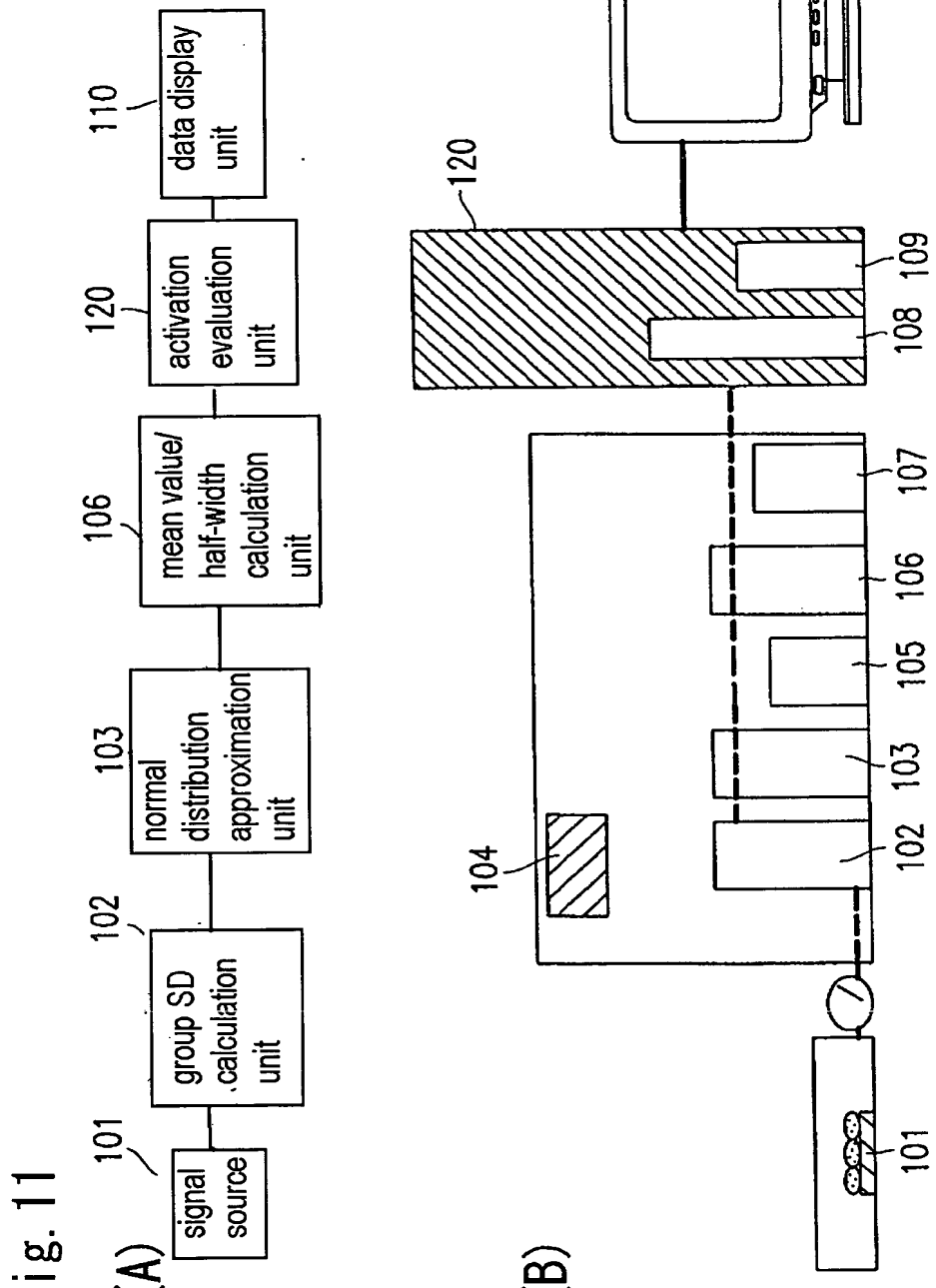

(A)
101
signal source
102
group SD calculation unit
103
normal distribution approximation unit
106
mean value/ half-width calculation unit
120
activation evaluation unit
110
data display unit
(B)
110
120
109
108
107
106
105
103
102
104
101

Fig. 12

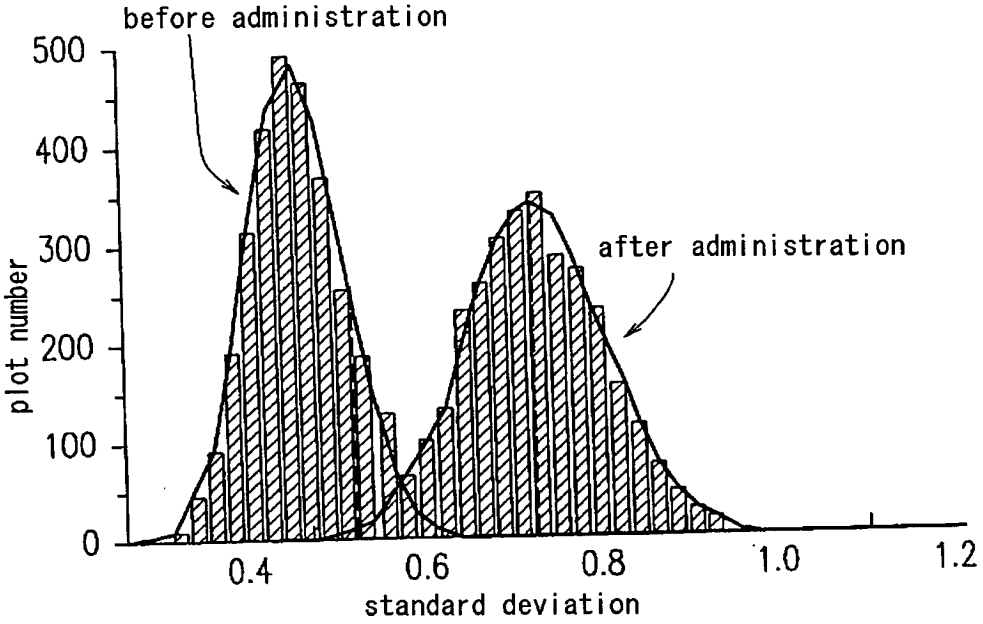

before administration
after administration
500
400
300
200
100
0
plot number
0.4
0.6
0.8
1.0
1.2
standard deviation

Fig. 13

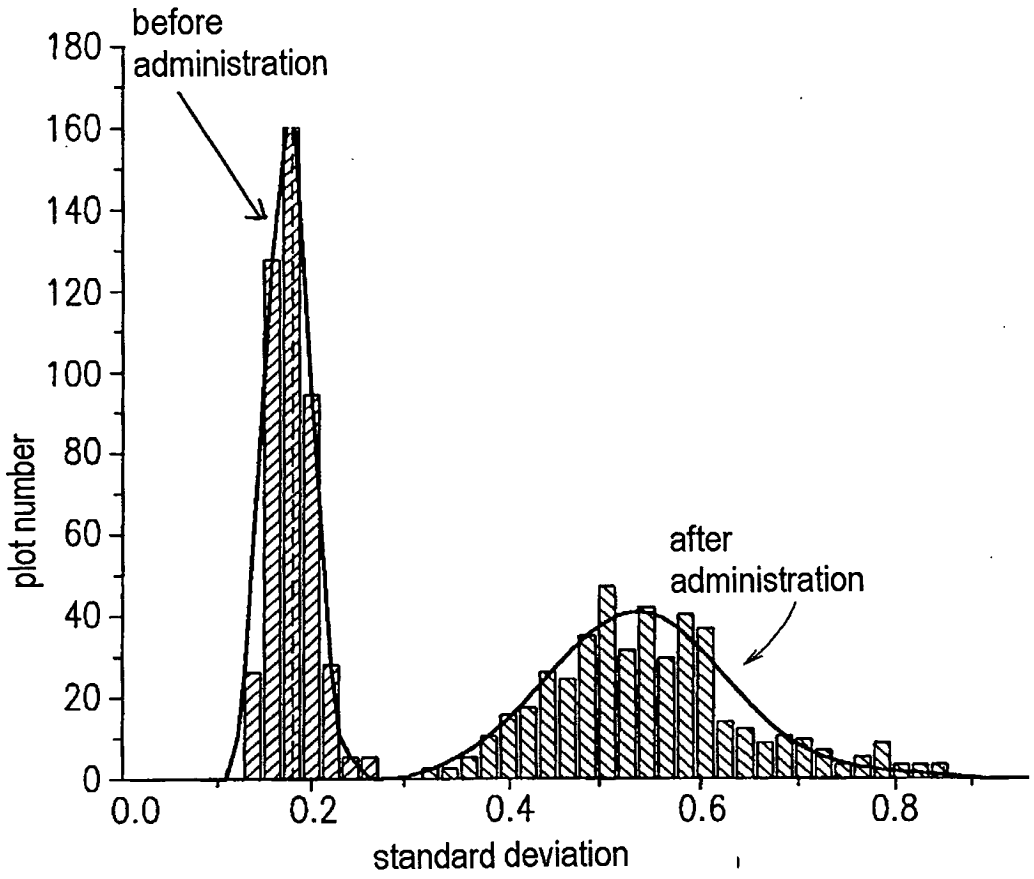

before
administration
after
administration
plot number
standard deviation
0
20
40
60
80
100
120
140
160
180
0.0
0.2
0.4
0.6
0.8

Fig. 14

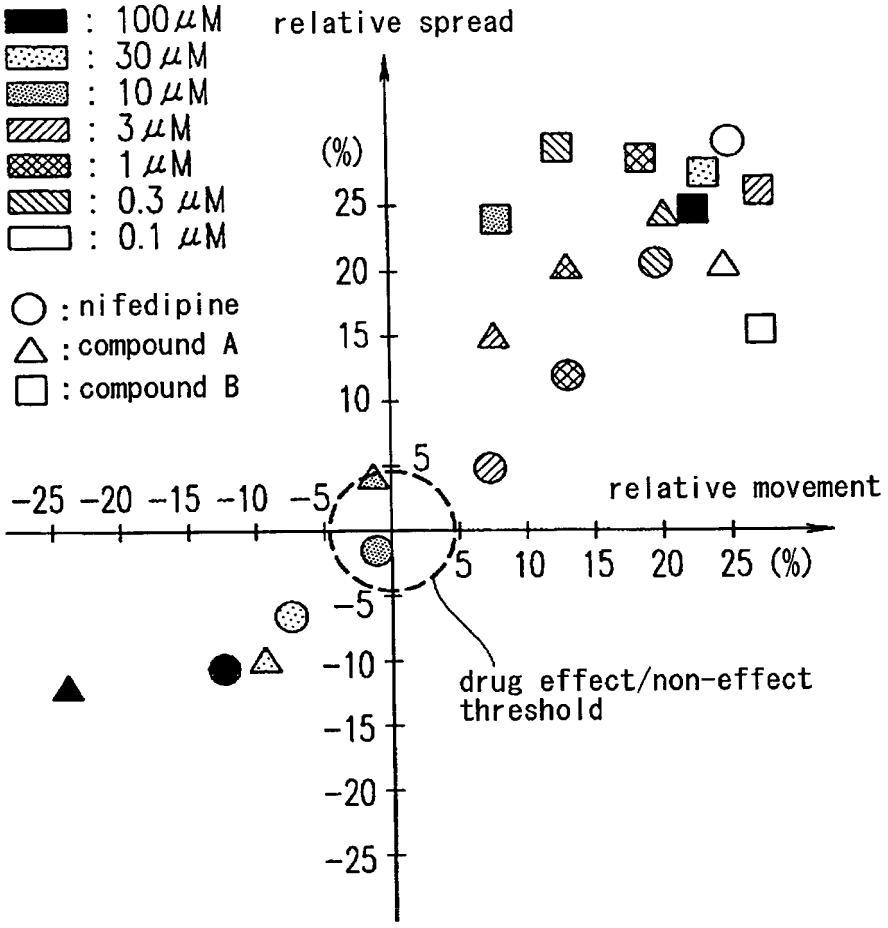

: 100μM
: 30μM
: 10μM
: 3μM
: 1μM
: 0.3μM
: 0.1μM
: nifedipine
: compound A
: compound B
relative spread
(%)
25
20
15
10
5
-5
-10
-15
-20
-25
-25 -20 -15 -10 -5
5 10 15 20 25 (%)
relative movement
drug effect/non-effect threshold

Fig. 15

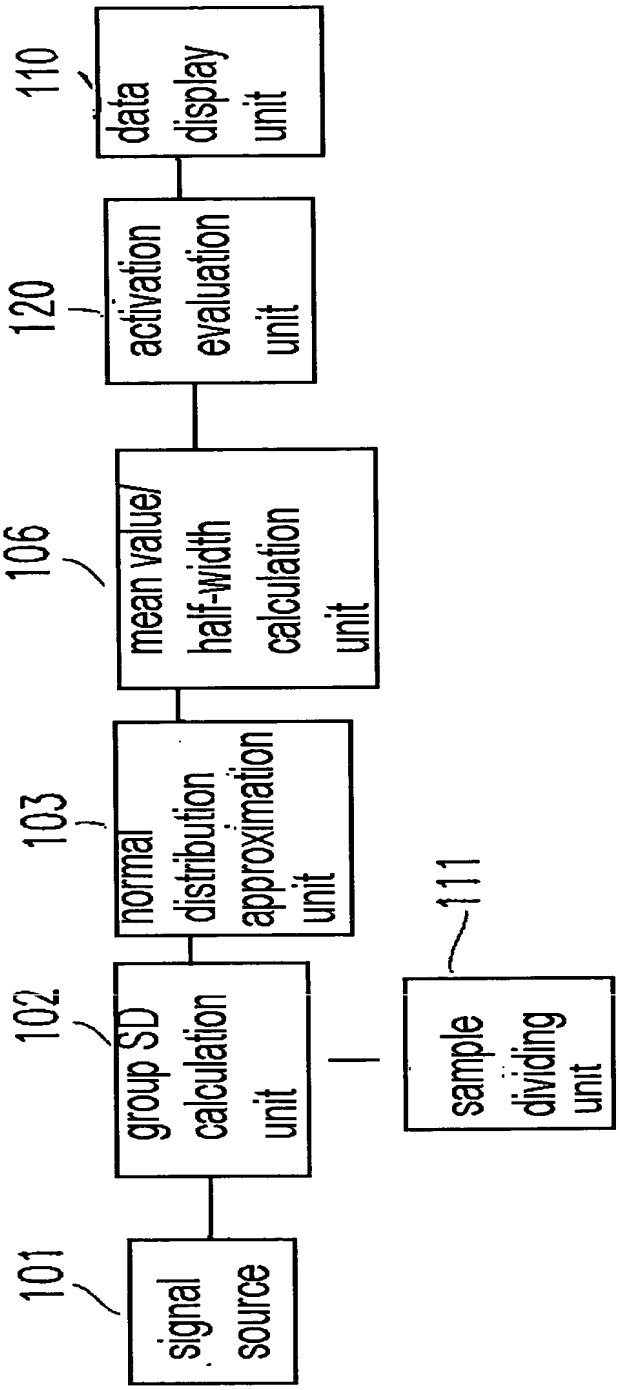
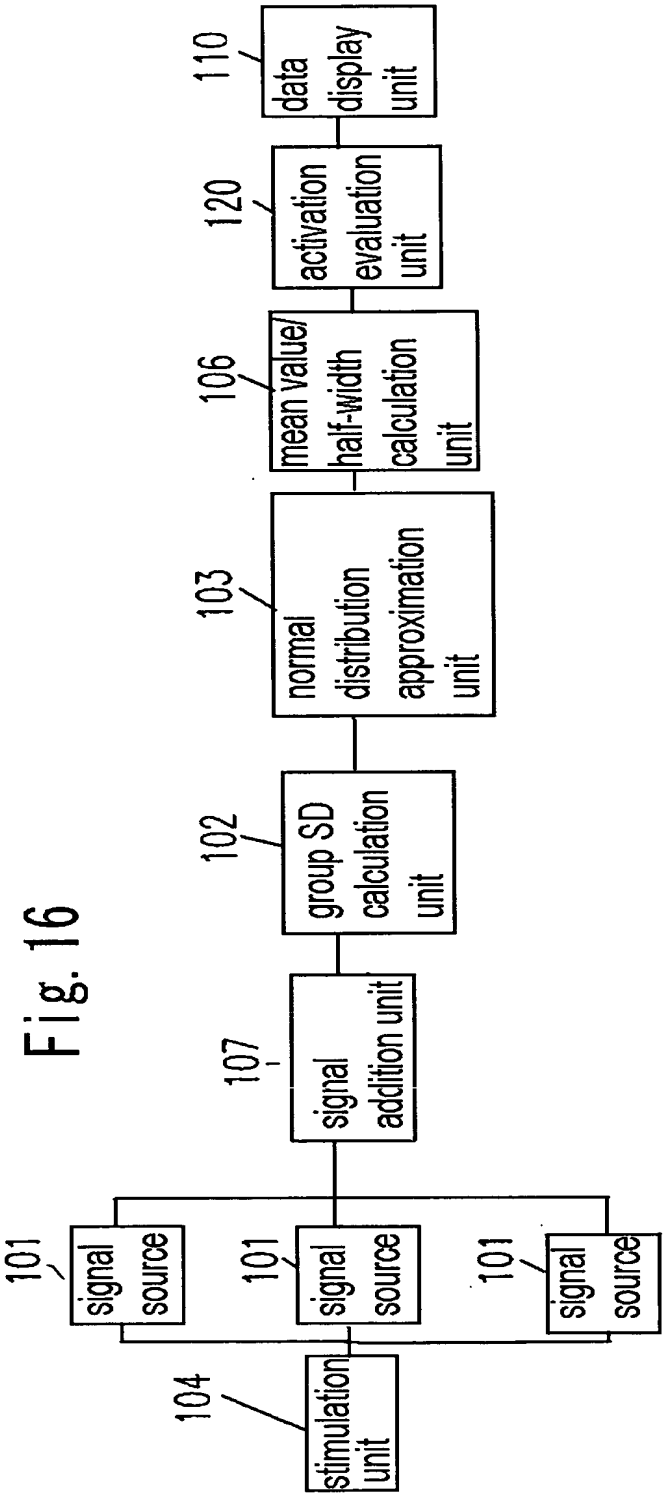

101
signal source
102
group SD calculation unit
103
normal distribution approximation unit
106
mean value/ half-width calculation unit
120
activation evaluation unit
110
data display unit
111
sample dividing unit

Fig. 16


101
signal source
101
signal source
101
signal source
104
stimulation unit
107
signal addition unit
102
group SD calculation unit
103
normal distribution approximation unit
106
mean value/ half-width calculation unit
120
activation evaluation unit
110
data display unit